CLARION SERVICE MANUAL

NISSAN MOTOR CORPORATION
137E ALONDRA BLVD.,
GARDENA, CALIF. 90247

DATSUN CUSTOM FACTORY CAR RADIO

MODEL RU-107-501(CR-140E1) 7 TRANSISTORS

411 - 1000

* SPECIFICATIONS

Circuit:
Push-Button Tuning Super-Heterodyne System with R.F.Amplifier.

Tuning Range:
530kc/s—1605kc/s.

Intermediate Frequency:
262.5kc/s

Sensitivity:
Less than 25dB.

Selectivity:
More than 20dB at 10kc detuned.

Output Impedance:
8 Ohm.

Output:
More than 2.5W.

Power supply:
12V.D.C.....Less than 0.6 A.

Polarity:
Reversible Switch for positive or negative ground.

Transistor:
7 Transistors 2 diodes.

Dimensions: Receiver Unit only:
Width: 6 5/16"
Height: 2"
Depth: 4 5/16"

Weight:
Receiver Unit only: 1.2 kg

* CONTENTS

RA-109-227(CR-217B3-6)	RECEIVER UNIT	1 EACH
SPA-122-004(S-122E)	SPEAKER ASS'Y	1 EACH
PAN-012-001(PA-38B)	ANTENNA ASS'Y	1 EACH
300-049-000(300-49)	#49 REAR BRACKET	1 EACH
280-007-000(GA-7)	INSTRUCTION TAG	1 EACH
923-005-000(AC-429)	SPARE FUSES	2 EACH
921-004-000(AC-220)	MOUNTING SCREWS	1 SET

* FEATURE

This Car-radio is specially designed for the DATSUN "Bluebird"

Use of planer transistor assures stable performance at both high and low temperatures.

Use of SEPP OTL (Single Ended Push Pull Output Transformer Less) circuit gives excellent tone quality.

Our AGC circuit provides clear, stable reception even at great distance from broadcasting stations.

Printed in Japan 298—048—000

*PRECAUTION ON POLARITY SETTINGS DURING INSTALLATION OF RADIO

First, check whether your car has a positive or negative ground.

Our export radios are set for negative ground cars.

If your car has a positive ground, see Fig. I push sliding switch up or to the plus (+) mark.

Caution: If the wrong ground is selected, you will burn out the printed circuit.

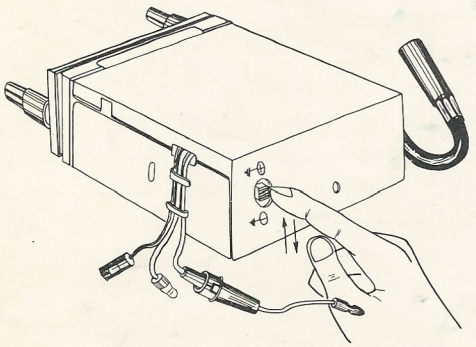


Fig. 1

*INSTALLATION OF ANTENNA

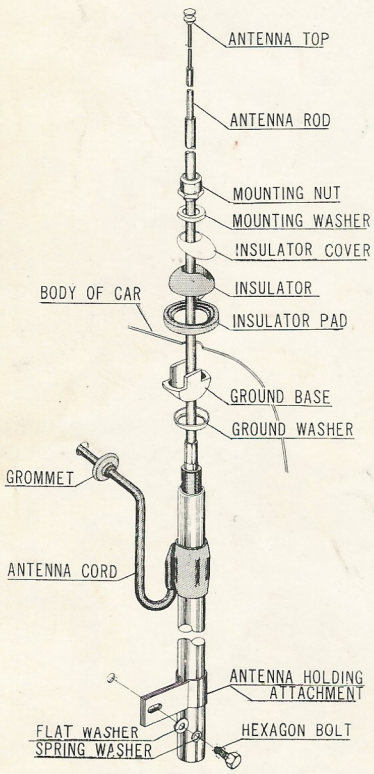


Fig. 2

1. Select position where antenna is to be mounted and be sure that there is sufficient clearance on the underside from obstacles before pin punching a center hole.
2. Use 1" diameter drill for mounting the antenna.
3. Disassemble the upper portion of the Antenna by loosening the Mounting Nut and removing all small parts up to and including the Insulator Pad as shown in Fig. 2. Do not remove the telescopic antenna section from main body.
4. Place Antenna Holding Attachment to main body, then take and mount the antenna body from the underside of the car through the 1" hole and assemble parts and nuts, etc. as in explosion diagram.

   Be certain that the Insulator and the Ground Base are mated correctly and set the angle of the antenna before tightening the Mounting Nut. Drill hole where the Antenna Holding Attachment can be firmly set and the antenna will be at the proper angle.

   Tighten the bolt and nut holding the Antenna Attachment to the body of the car.

*TRIAL RECEPTION

Befor final mounting, place radio receiver and speaker on front seat of car and connect all wirings as for normal operation. See Fig. 3.

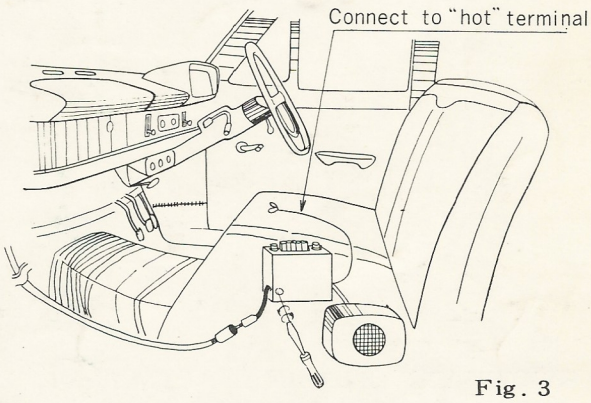


Fig. 3

1. Speaker cord extending from the radio unit should be plugged into the speaker terminal and the Antenna lead-in plug set in the radio receiver unit.
2. Connect the Power Supply Wire to a "hot" lead behind the Car Switch and switch on the radio, after the antenna is extended fully.
3. If no sound comes from the radio, the antenna is not properly grounded therefore polish area around the base of the antenna where it meets the car's body. See Fig. 4.
4. Check electrical connections again. If there is much static the antenna is not properly grounded, so repolish for perfect grounding.
5. Adjustment of Antenna Trimmer is done by setting the dial pointer around the 1400 kc mark and turning the screw clockwise or counterclockwise until the signal comes in strongest and clearest. See Fig. 5.

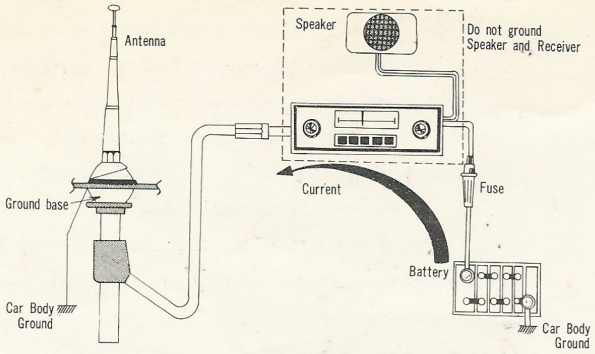


Fig. 4

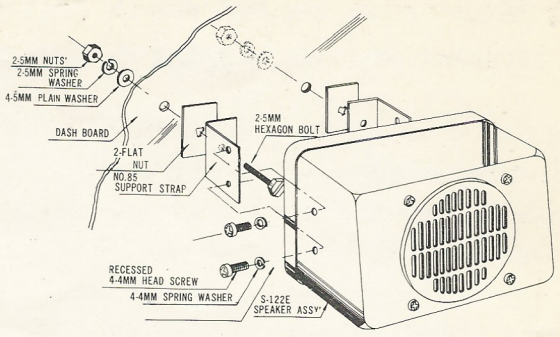
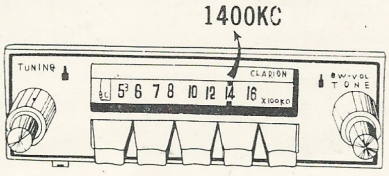


Fig. 7



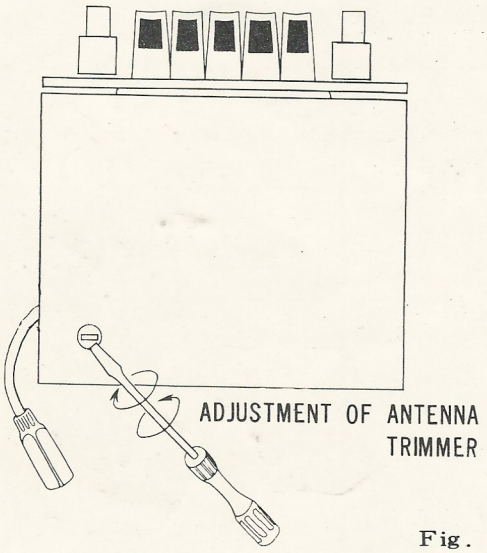


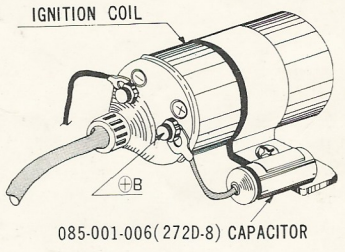
Fig. 5

* INSTALLATION OF NOISE SUPPRESSORS

Place Noise Suppressor (274B) about three inches from the distributor cap and connect each Spark Plug Noise Suppressors (274A) directly on plug terminals. Cut off 1" off spark plug wires and insert into respective spark plug noise suppressors. (274A). See Fig. 8.

Caution:

In case that CAR has the R. R. cable (Radio Resistance cable) in which a high-tension cable is assembled, noise suppressor (274A & 274B) should not be used in any conditons.



* RECEIVER UNIT INSTALLATION

Refer to Fig. 6.

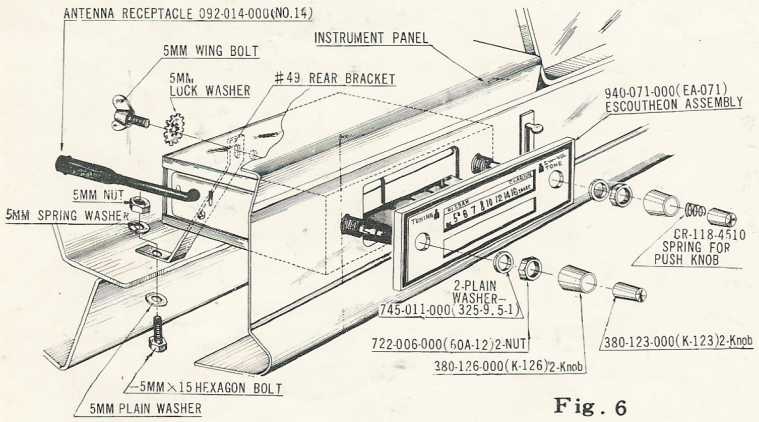


Fig. 6

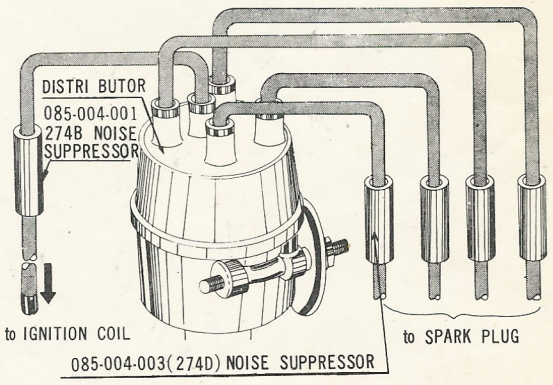
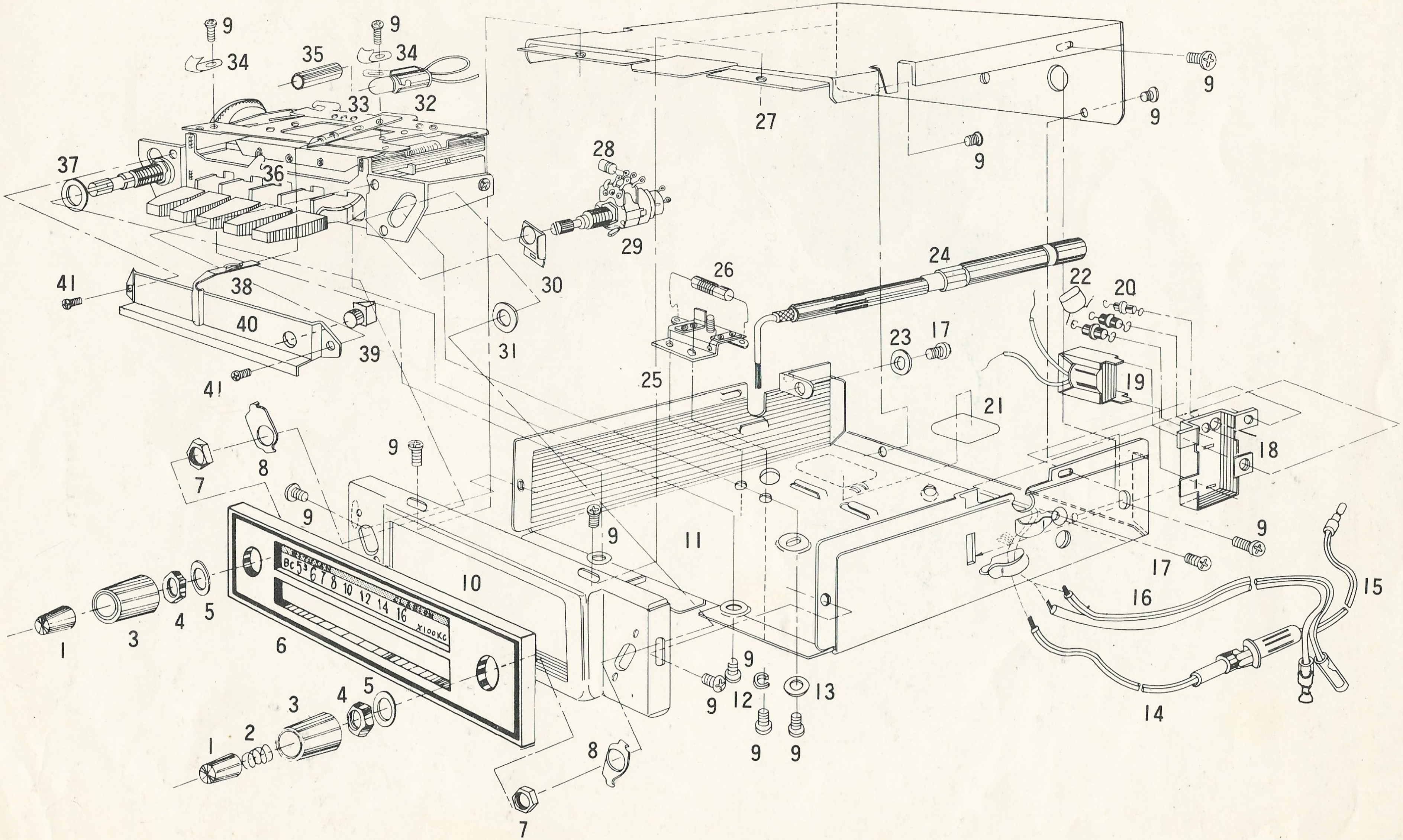


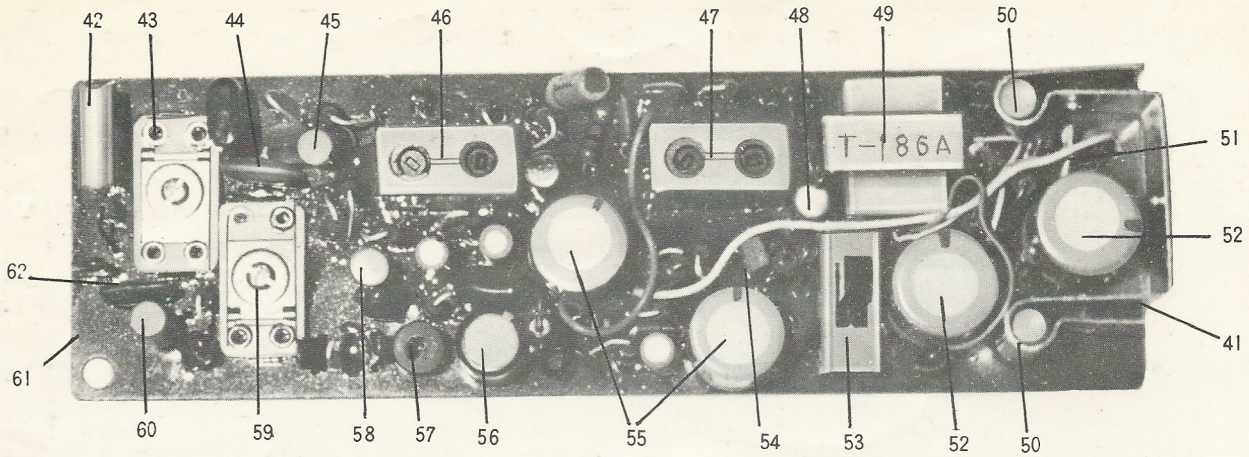
Fig. 8

* SPEAKER ASS'Y INSTALLATION

Refer to Fig. 7.

*EXPLOSION VIEW(See Part's List)

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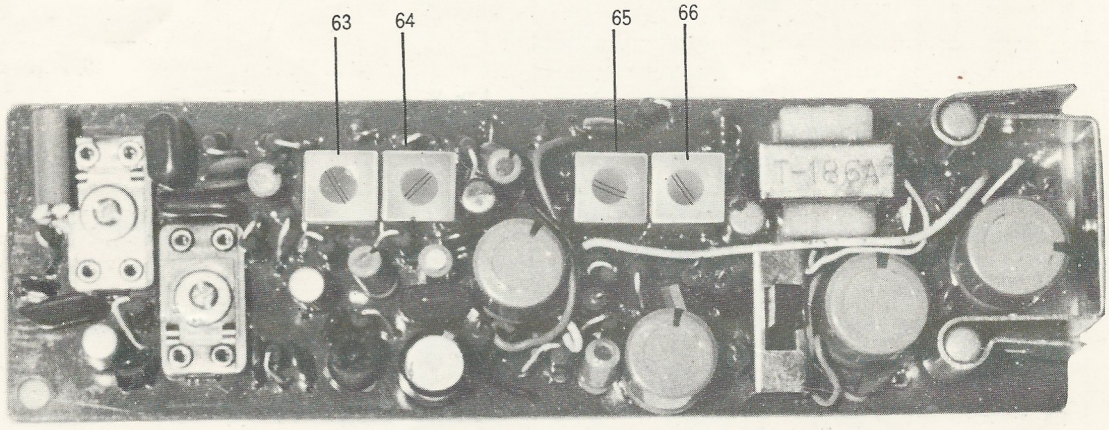
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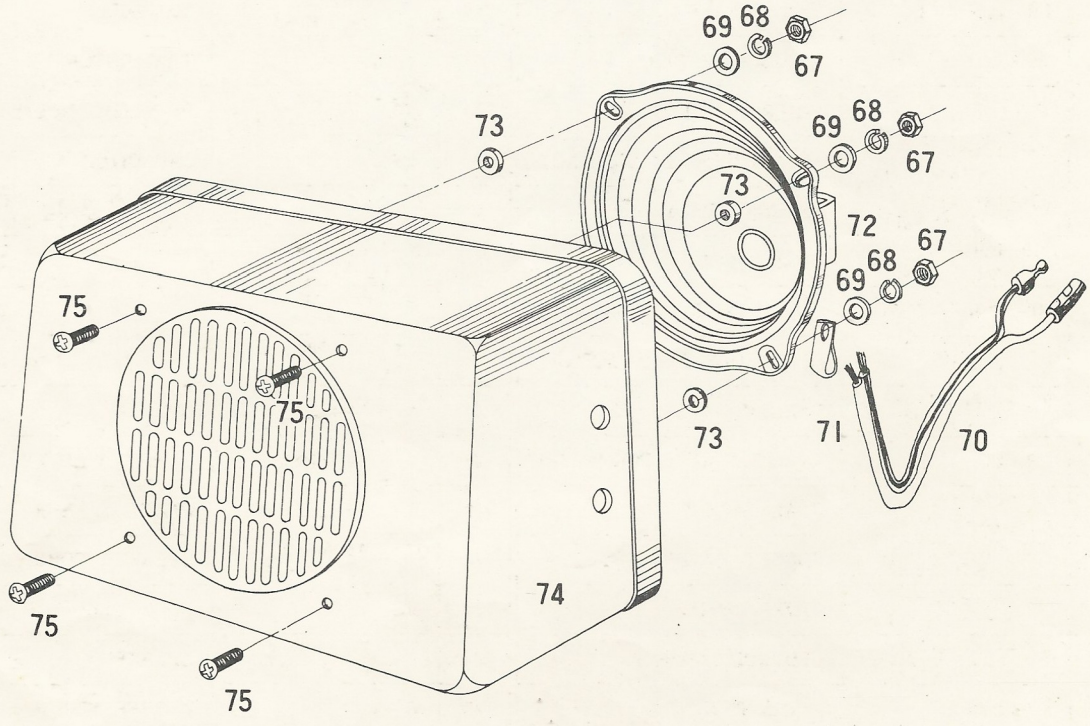
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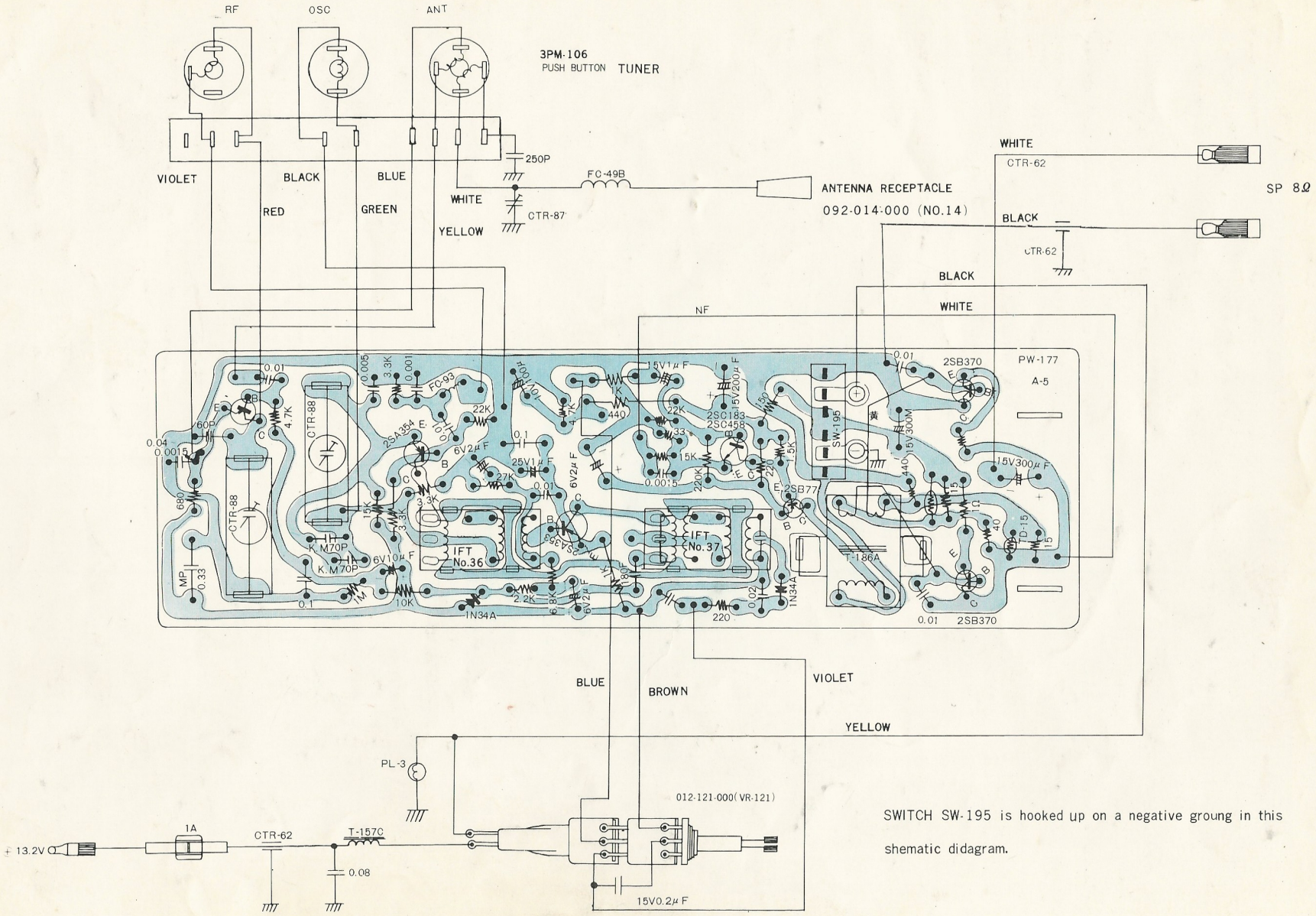
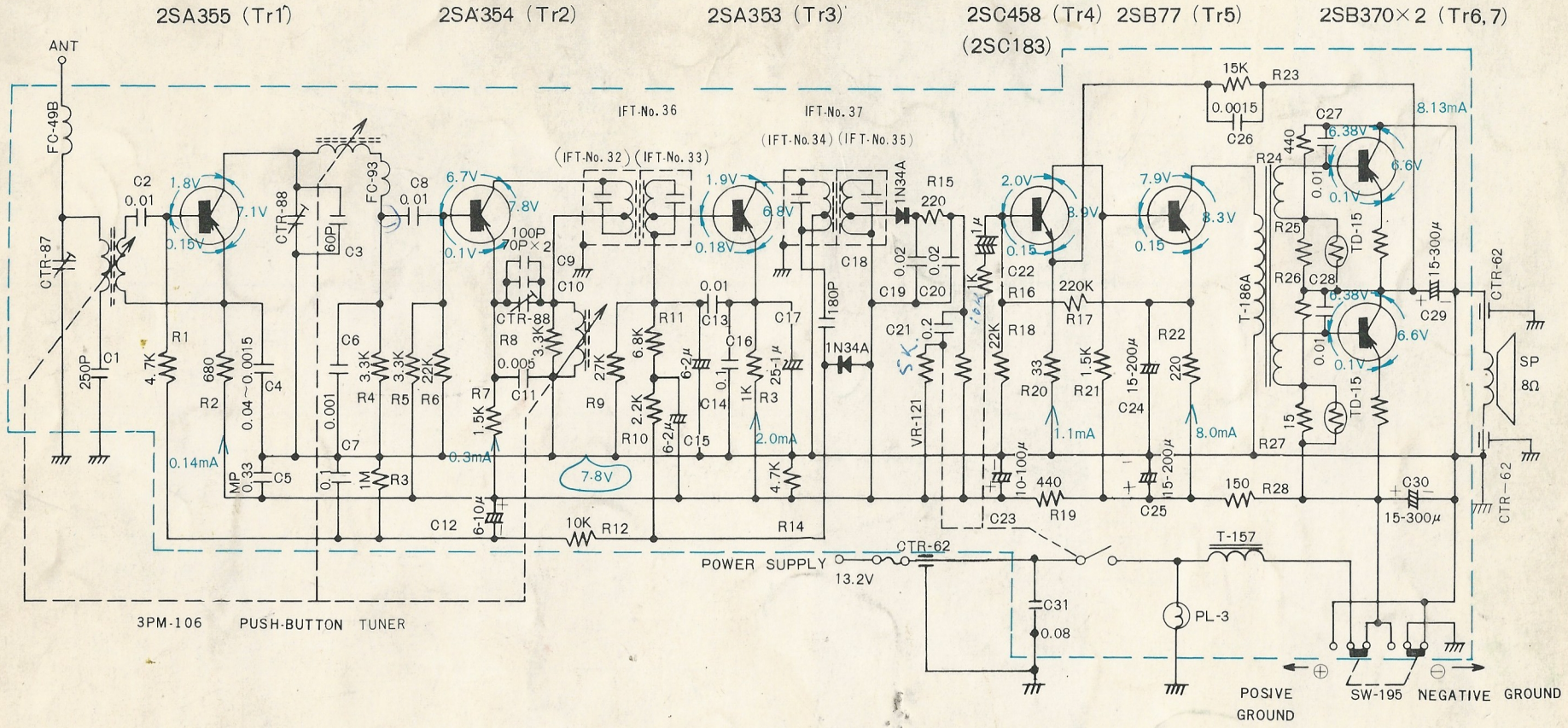
*PART'S LIST

DIA-GRAM NO.	PARTS NUMBER	DESCRIPTION
1	380－123－000 (K－123)	KNOB
2	750－043－000 (CR－118－4510)	SPRING, For Push Knob
3	380－126－000 (K－126)	KNOB
4	722－006－000 (60A－12)	NUT
5	745－011－000 (325－9.5－1)	PLAIN WASHER
6	940－071－000 (EA－071)	ESCUTHEON ASSEMBLY
7	722－001－000 (NT－1)	NUT
8	CR-217-4503	RETAINER For Push Button Tuner & Variable Resistor Shaft Fixed
9	3 mm×4 mm	SCREW
10	308－006－100 (UB－6)	FRONT COVER PLATE
11	311－002－001 (UG－7)	CASE, For Radio Chassis
12	3 mm WASHER	SPRING WASHER
13	3 mm WASHER	PLAIN WASHER
14	850－056－001 (CS－56－1)	POWER SUPPLY CORD
15	850－118－002 (CS－118－2)	POWER SUPPLY CORD
16	851－073－000 (CSP－73)	SPEAKER CORD
17	3 mm×6 mm	SCREW
18	315-005-000 (U1-5)	MOUNTING BASE, For Bypass Capacitor
19	009－018－000 (T－157)	CHOKE TRANSFORMER
20	040－003－000 (CTR－62)	BYPASS CAPACITOR
21	CR－140－4502	SET PLATE
22	0.08 MF	MYLER CAPACITOR
23	F－1	FIBER WASHER
24	092－014－000 (302－14)	ANTENNA RECEPTACLE NO.14
25	004－087－000 (CTR－87)	ANTENNA TRIMMER
26	010－049－001 (FC－49B)	SERIES COIL
27	310-003-000 (UF-9)	COVER, For Radio Chassis
28	VL15V02MF	ELECTROLYTIC CAPACITOR
29	012－121－000 (VR－121)	VARIABLE RESISTOR
30	CR－206－4515	VARIABLE RESISTOR WASHER
31	745－014－000 (325－9.5－4)	PLAIN WASHER
32	070－016－001 (SB－16B)	SOCKET, For Dial Scale
33	017－003－000 (PL－3)	PILOT LAMP
34	750－033－000 (SR－33)	GROUNDING SPRING
35	8.5φ×30	VINYL TUBE
36	3PM－106	PUSH BUTTON TUNER
37	745－022－000 (CR－200－4514)	WASHER
38	376－006－000 (ND－12)	NEEDLE

DIA-GRAM NO.	PARTS NUMBER	DESCRIPTION
39	375－001－000 (PM－1)	PILOT INDICATOR
40	374－012－000 (UH－12)	BACK COVER PLATE
41	RA－11	RADIATOR PLATE
42	50V0.33μ(M)	LACQUER FILM CAPACITOR
43	004－088－000 (CTR－88)	TRIMMER
44	100PF	CAPACITOR
45	2 SA353	TRANSISTOR
46	005－036－000 (IFT. No. 36)	INTERMEDIATE FREQUENCY TRANSFORMER NO. 36
47	005－037－000 (IFT. No. 37)	〃 〃
48	2SB77	TRANSISTOR
49	006－047－001 (T－186A)	INPUT TRANSFORMER
50	2SB370	TRANSISTOR
51	002－015－000 (TD－15)	THERMISTOR
52	VL15V 300μF	ELECTORLYTIC CAPACITOR
53	SW－195	SLIDE SWITCH
54	2 SC458(2 SC183)	SILICON TRANSISTOR
55	VL15V 200μF	ELECTROLYTIC CAPACITOR
56	VL10V 100μF	〃 〃
57	010－093－000 (FC－93)	SERIES COIL
58	2 SA355	TRANSISTOR
59	004－088－000 (CTR－88)	TRIMMER
60	2 SA354	TRANSISTOR
61	099－177－000 (PW－177－A－5)	PRINTED CIRCUIT BOARD
62	50PF	CAPACITOR
63	005－032－000 (IFT. No. 32)	INTERMEDIATE FREQUENCY TRANSFORMER NO. 32
64	005－033－000 (IFT. No. 33)	〃 NO. 33
65	005－034－000 (IFT. No. 34)	〃 NO. 34
66	005－035－000 (IFT. No. 35)	〃 NO. 35
67	3 mm NUT	NUT
68	3 mm WASHER	SPRING WASHER
69	3 mm WASHER	PLAIN WASHER
70	851－074－000 (CSP－74)	SPEAKER CORD
71	305－7	CORD CLIP
72	090－008－001 (SP－5－12A)	SPEAKER
73	G－43	RUBBER WASHER
74	S－107－2502	SPEAKER CASE
75	3mm × 16mm	SCREW



SWITCH SW-195 is hooked up on a negative groung in this shematic didagram.



CAUTION :

※ Line voltage: 13.2V

※ Values of currents shown herein are based when no signals being received.

※ Transistor **2SC458** (2SC183) is NPN type